

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An extendable misting apparatus comprising a housing having a recess surrounded by a radial flange at one end, said radial flange adapted to secure said housing to a support structure and a hydraulic fitting at an opposite end, said recess defined in part by a bearing block; a hollow piston rod mounted for axial reciprocating movement in said housing between retracted and extended positions, said piston rod passing through said bearing block and having a misting head fixed to one end thereof adapted to be received in said recess when said hollow piston is in said retracted position; at least one misting nozzle mounted in said misting head and in fluid communication with said hollow piston rod and said hydraulic fitting said at least one misting nozzle having an orifice sized to deliver water droplets having a maximum cross-sectional dimension of between 5-10 microns; and a spring located in a chamber defined by said piston and said bearing block, normally biasing said piston rod to said retracted position.

2. (Currently Amended) The apparatus of claim 1 wherein said bearing block includes an O-ring seal engaged with said piston rod.

3. (Currently Amended) The apparatus of claim 1 wherein said misting head further comprises a cover plate that engages said radial flange and that conceals said at least one nozzle when said misting head is received in said recess in said retracted position.

4. (Original) The apparatus of claim 1 wherein said piston rod has a piston at an opposite end of said piston rod, said piston and piston rod adapted to be driven to said extended position by water entering said housing via said hydraulic fitting.

5. (Withdrawn)

6. (Withdrawn)

7. (Original) The apparatus of claim 1 wherein at least one misting nozzle comprises four misting nozzles arranged at substantially 90° intervals about said misting head.

8. (Currently Amended) An overhead misting apparatus comprising an elongated housing having a flange at one end and a hydraulic fitting at an opposite end adapted for securing said housing to an overhead support structure, said housing adapted to project behind an exteriorly visible surface of said support structure, with a back side of said radial flange engaged with said exteriorly visible surface;

a misting head including at least one misting nozzle secured at one end of a piston rod mounted for reciprocating movement in said housing between extended and retracted positions, said at least one misting nozzle having an orifice sized to deliver water droplets having a maximum cross-sectional dimension of between 5-100 microns said housing having an open-ended recess surrounded by said flange and adapted to receive said misting head in said retracted position.

9. (Original) The apparatus of claim 8 wherein said exteriorly visible surface comprises an outdoor ceiling.

10. (Original) The apparatus of claim 8 wherein a coil spring is arranged in said housing to bias said piston rod and said misting head toward said retracted position.

11. (Original) The apparatus according to claim 8 and further comprising a piston at an opposite end of said piston rod exposed to water under pressure entering said housing via said hydraulic fitting to thereby move said piston rod and said misting head to said extended position.

12. (Original) The apparatus of claim 8 and further comprising a bearing block in said housing through which said piston rod passes, and further wherein said bearing block includes an O-ring seal engaged with said piston rod.

13. (Original) The apparatus of claim 8 wherein said misting head further comprises a cover plate that conceals said at least one nozzle when said misting head is received in said recess in said retracted position.

14. (Withdrawn)

15. (Withdrawn)

16. (Original) The apparatus of claim 8 wherein at least one misting nozzle comprises four misting nozzles arranged at substantially 90° intervals about said misting head.

17. (Currently Amended) A misting apparatus for attachment to overhead structures and for supplying cooled air to a designated outdoor area comprising a housing having a radial flange at a first end and a hydraulic fitting at a second opposite end, said radial flange adapted for securing said housing to an overhead structure; a bearing block axially between said first and second ends thereby defining a chamber between said hydraulic fitting and one side of said bearing block and an open recess between the other side of said bearing block and said flange; a piston rod slidable within said housing including through said bearing block and having a piston at one end within said chamber, with a coil spring arranged about said piston rod and engaged with said piston and said bearing block; a misting head fixed to an opposite end of said piston rod including at least one misting nozzle said at least one misting nozzle having an orifice sized to deliver water droplets having a maximum cross-sectional dimension of between 5-10 microns; wherein a flowpath is established from said hydraulic fitting through said piston rod to said misting head and said misting nozzle and further wherein fluid entering said chamber acts upon

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said piston to drive said piston rod and said misting head from a retracted position where said misting head is received within said recess to an extended position wherein said at least one misting nozzle extends outwardly beyond said flange.

18. (Currently Amended) The apparatus of claim 17 wherein said misting head is provided with a flat cover plate downstream of said at least one misting nozzle, said cover plate overlying at least a portion of said radial flange when said misting head is in said retracted position.

19. (Withdrawn)

20. (Withdrawn)

21. (Withdrawn)